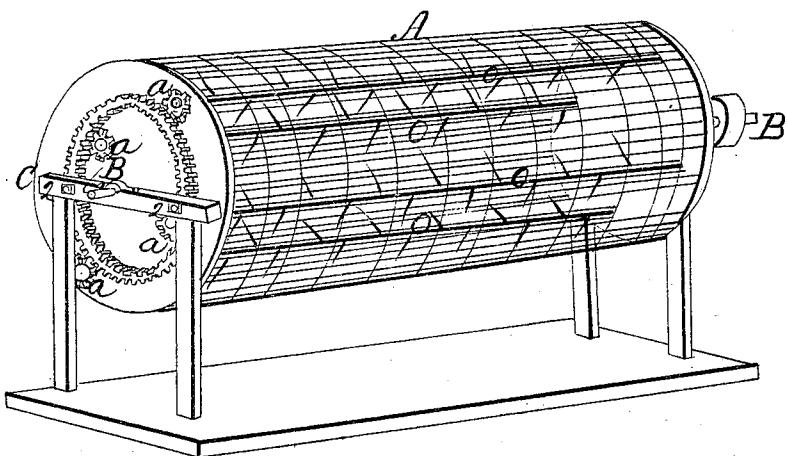


E. Burt & G. Corriel.

Rag Duster.

No

Patented Nov. 28, 1836.



UNITED STATES PATENT OFFICE.

ENOCH BURT AND GEORGE CARRIEL, OF MANCHESTER, CONNECTICUT.

MACHINE FOR DUSTING RAGS.

Specification of Letters Patent No. 93, dated November 28, 1836.

To all whom it may concern:

Be it known that we, ENOCH BURT and GEORGE CARRIEL, of Manchester, in the county of Hartford and State of Connecticut, cut, have invented a new and useful Improvement in Machines in Common Use for Dusting Rags; and we do hereby declare that the following is a full and exact description.

10 We take a common screen or duster, such as are in common use by paper makers, and having taken out of it the shaft, we cause it to revolve on gudgeons made fast to its heads by means of a flange, and bolts. We
15 then place in the interior of the screen, and extending from end to end thereof, four agitators, these are small cylinders, about six inches in diameter in which are inserted pins in number, and length according to
20 the degree to which the operator may choose to agitate the rags. The work will be done if the pins stand two feet from each other on the same cylinder. These revolve on gudgeons in metallic boxes made fast in the
25 heads, and at one of their ends, the gudgeons extend so far through the head as to receive a small spur wheel on its end outside of the head. The gudgeons are set in the head on lines drawn through the center of the periphery at right angles with each other. Two of them on one of these lines are placed about one third the length of the radius of the screen from the center, and the other two about the same distance
30 from the periphery of the screen. These agitators are put in motion by a stationary wheel made fast to the inside of the post that sustains the gudgeon of the screen, and this passes through its center. This stationary wheel has spur cogs both on its outer and inner periphery into which the
35 small spur wheels on the gudgeons of the agitators gear, the two inner ones gear into

the internal spur cogs of the stationary wheel and the two outer ones into the external spur cogs of said wheel. When the screen is put in motion, which is done by a belt and pulley or gear wheels upon its gudgeon, the small spur wheels on the gudgeons of the agitators travel around the stationary wheel as the planets around the sun, while each one revolves on its own axis (which is one of the agitators) with a velocity corresponding to the relative diameters of the small spur wheels, and that of the stationary one. 45 We think that the proportion between them of three to one answers very well. By these agitators thus put in motion, the rags are driven in various directions with great rapidity, and whipped by the agitator pins, 50 and thus speedily cleaned of all dust. The action on the rags may be increased or diminished by increasing or diminishing the velocity of the screen. This may be from ten to thirty revolutions per minute. 55

In this improved machine for cleaning or dusting rags we do not claim as our invention. The common screen, nor the cylindrical agitators, nor the wheels, nor the sun, and planet motion, nor indeed any one part 60 taken separately, but

We claim as our invention, and desire to secure by Letters Patent—

The aforesaid arrangement, and combination of the common screen or duster with the cylindrical agitators armed with pins rapidly revolving in various directions with the sun, and planet motion, constituting an improved machine for cleaning rags of dust for paper making. 75

ENOCH BURT.
GEORGE CARRIEL.

Witnesses:

NORMAN BUCKLAND,
BRADFORD BUCKLAND.